

PATENT COOPERATION TREATY

Rec'd PCT/PTO 22 MAR 2005

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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

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PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

19.10.2004

Applicant's or agent's file reference

p77286pc00/civ

IMPORTANT NOTIFICATION

International application No.

PCT/EP 03/10588

International filing date (day/month/year)

23.09.2003

Priority date (day/month/year)

23.09.2002

Applicant

TELEFONAKTIEBOLAGET L M ERICSSON

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international
preliminary examining authority:



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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

CD 20 OCT 2004

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| Applicant's or agent's file reference P77286pc00/ciV | | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416) | |
| International application No. PCT/EP 03/10588 | International filing date (day/month/year) 23.09.2003 | Priority date (day/month/year) 23.09.2002 | |
| International Patent Classification (IPC) or both national classification and IPC H04B7/005 | | | |
| Applicant TELEFONAKTIEBOLAGET L M ERICSSON | | | |

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
 - ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

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|---|---|
| Date of submission of the demand 21.04.2004 | Date of completion of this report 19.10.2004 |
| Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | Authorized Officer Fernández Cuenca, B Telephone No. +49 89 2399-7019  |

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP 03/10588

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-8 as originally filed

Claims, Numbers

1-33 as originally filed

Drawings, Sheets

1/2-2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/EP 03/10588**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | |
|-------------------------------|-------------|------------|
| Novelty (N) | Yes: Claims | |
| | No: Claims | 1,17,33 |
| Inventive step (IS) | Yes: Claims | |
| | No: Claims | 2-16,18-32 |
| Industrial applicability (IA) | Yes: Claims | 1-33 |
| | No: Claims | |

2. Citations and explanations

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP 03/10588

Reference is made to the following documents:

D1: WO00/65748

D2: EP1067706

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Novelty (Article 33(2) PCT).

a. Document D1 is regarded as being the closest prior art to the subject-matter of **claim 1** and shows (the references in parentheses applying to this document):

A method for controlling a radio frequency transmitter (first line of abstract), the method comprising:

using an integrating controller to produce a reference value of a first quality measure from a first error signal (page 9, lines 20-22; figure 5A, block 102 "Outer power control loop");

producing an estimated value of the first quality measure relating to an actual value of the first quality measure (page 7, lines 14-16; page 9, lines 11-14); and

supplying a tracking signal related to the estimated value of the first quality measure and the reference value of a first quality measure to the integrating controller (page 9, lines 11-24; figure 5A, blocks 110-112, 108, 114, 116).

The subject-matter of claim 1 is therefore not novel (Article 33(2) PCT).

b. **Claims 17 and 33** are the apparatus and computer program claims equivalent to the method claim. Their subject-matter is thus not novel.

2. Inventive Step (Article 33(3) PCT).

The following dependent claims are not inventive:

(I) **Claims 2 and 3**: See D1, page 12, lines 1- 6; also figures 5A, block 104 and

figure 6A.

(ii) **Claim 4:** See D1, page 2, lines 13-18.

(iii) **Claims 5 and 6:** D1, page 8, line 7-8 and figure 5A.

(iv) **Claims 7 and 8:** D1, page 9, lines 20-22 and figure 5A.

(v) **Claims 9 and 10:** D1, page 8, line 8 (SIR target) and page 12, line 4 (QoS target).

(vi) **Claim 11:** D1, page 2, lines 3-8.

(vii) **Claim 12:** Normal design procedure.

(viii) **Claims 13-16:** See D2, paragraphs 12 and 36 to 42. Combination of both documents, D1 and D2, is obvious for the skilled person, since they deal with the same technical problem.

(ix) **Claims 18-32** are the equivalent apparatus claims, and their subject-matter is therefore also not inventive.